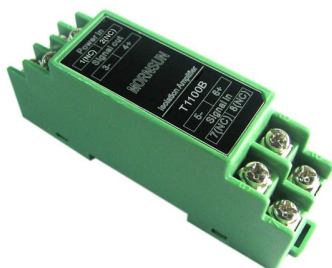


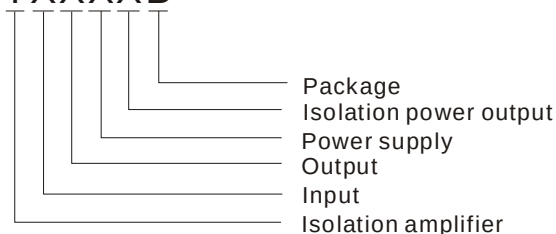
Passive single channel analog signal Isolation barrier (lin & lout)

——T1100B



PART NUMBER SYSTEM

TXXXXB



FEATURES

- 2-port isolation (signal input and signal output)
- High accuracy (0.1% F.S.)
- High linearity (0.1% F.S.)
- Isolation voltage(3KVDC/60S)
- Low temperature drift(35PPM/°C)
- Industry class(Operation temp.: -25°C to +71°C)
- High reliability(MTBF>500,000 hours)

GENERAL DESCRIPTION

Analog signal isolation barrier, is a signal conditioner with electrical insulation between input and output, it can receive a variety of analog signal from the field instrument, and transmit a standard output signal or user-specified special signal to the control room or DCS. The product is isolated between power supply, input and output. It is widely used in the industrial measurement systems, medical electronic equipment, electrical equipment etc. Adopting high efficiency electromagnetism isolation technology to achieve signal isolation, it is available to keep high output accuracy, good linearity and low temperature drift.

SELECTION GUIDE

Model	Power Supply	Input	Output	Isolation Power Output	Channels
T1100B	NONE	4~20mA	4~20mA	NONE	1

ELECTRICAL CHARACTERISTICS

Power Supply	Power Supply	NONE
	Input power	NONE
	Power Protection	NONE
Input	Input Signal	4~20mA
	Overload	≤50mA
	Voltage Drop-out	<3V(@20mA)
Output	Output Signal	4~20mA
	Load ability	≤300Ω(@Output =20mA)
	Load Regulation	<0.05% meas.val./100Ω

TRANSMISSION CHARACTERISTICS

Zero Offset	0.1%F.S.
Gain Error	0.1%F.S.
Temperature drift coefficient	0.0035%F.S./°C (-25°C to +71°C)

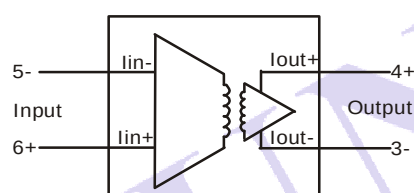
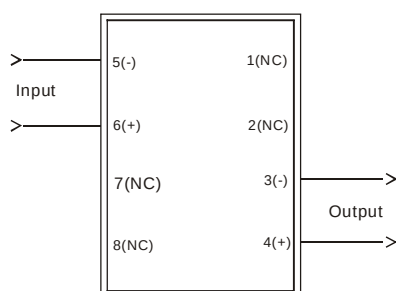
ISOLATION CHARACTERISTICS

Galvanic Isolation	Two-port isolation (signal input and signal output)
Isolation Voltage	3kVDC (Tested for 1minute and leakage current < 1mA, humidity < 70%)
Insulation Resistance	100MΩ, 500VDC (Between signal input ,signal output, power supply and isolation power output)

OTHER CHARACTERISTICS

Ambient Temperature	Operation temperature:-25°C to +71°C
	Transport and Storage temperature:-40°C to +85°C
Package	35mm DIN-rail package
Safety Class	IP20(IEC60529 / EN60529)
EMC compliance	GB/T 18268(IEC61326-1)
Weight	60g, typ
Application Environment	No dust, fierce vibration, impulsion and corrosive gas
Note: 1 .All specifications measured at TA=25°C, humidity<75%, the value of nominal input and rated output load unless otherwise specified. 2. Only typical models listed, specifications of custom product may be different. Please contact our service people directly for certain conditions.	

APPLICATION CIRCUIT DIAGRAM & PIN DESCRIPTION



CONNECTION

1. Cross section area of wiring: 0.5mm²-2.5 mm²;
2. Multi-strand wire, the length of bare wire is about 8mm, fixed by the M4 bolt.

APPLICATION NOTE

1. Please read the user manual carefully before using. If any question please contact our FAE.
2. Please do not use this product in hazardous area.

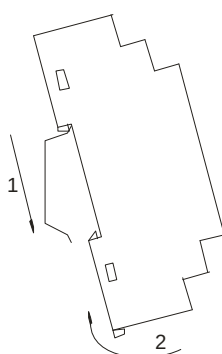
AFTER SERVICE

1. Products are carefully inspected and quality controlled during production and before shipment. If they operated abnormally or there was anything wrong, please contact our agent from which you purchased or MORNSUN FAE as soon as possible.
2. MORNSUN warranty our product for 3 years from manufacturing date. During this period, MORNSUN will repair or replace the product if product was found to have manufacturing defect.

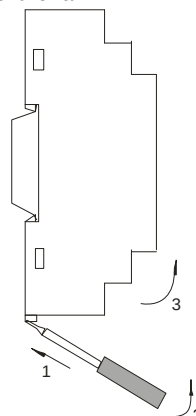
INSTALLATION & DISASSEMBLY

DIN35mm standard rail installation

1. Upside of the instrument card in the rail;
2. Push underside of the instrument into the rail.

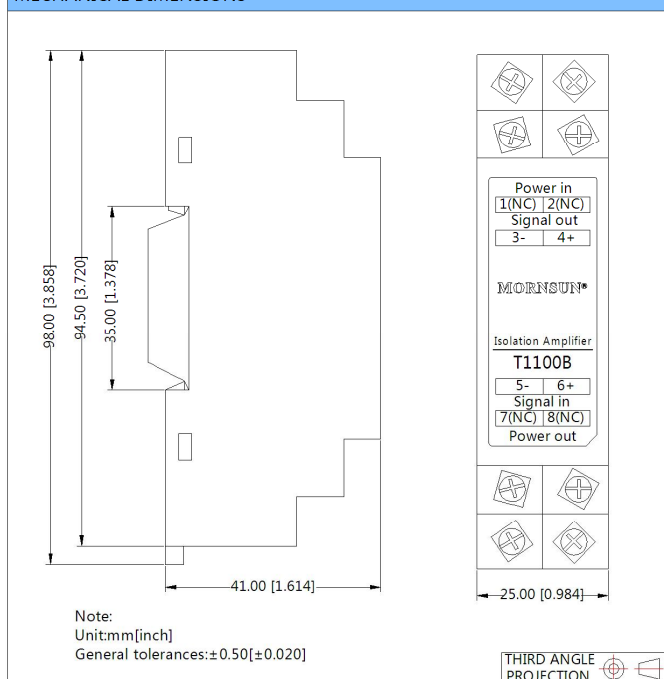


1. Use a screwdriver (Width of edge≤6mm), cut in the metal card lock from the underside;
2. Boost up the screwdriver and prize the metal card lock downwards;
3. Pull the instrument out of the rail.



PACKAGING DIMENSION & PACKAGING DIAGRAM

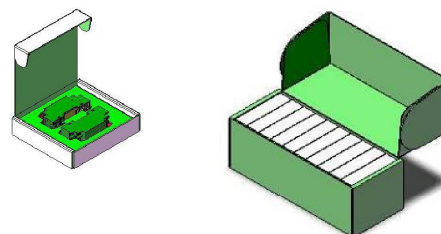
MECHANICAL DIMENSIONS



PIN CONNECTION

PIN CONNECTION	
Pin	Function
3-	Signal output-
4+	Signal output+
5-	Signal input-
6+	Signal input+
Others	NC

PACKAGE DIAGRAM



Note:
Small white box:L*W*H=165*155*40mm
Packaging Quantity:2pcs
Inner carton:L*W*H=425*175*160mm
Packaging Quantity:20pcs

Note:

1. All specifications are measured at Ta=25°C, humidity<75%, the value of nominal input and rated output load unless otherwise specified.
2. In this datasheet, all the test setup and methods are based on our corporate standards.
3. All characteristics are for listed models, and non-standard models may perform differently. Please contact our technical support for more details.
4. Please contact our technical support for any specific requirement.
5. Specifications of this product are subject to changes without prior notice.

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